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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,122	11/20/2003	R. Christopher Carney	102863-23	9095
	7590 07/01/200 LENNEN & FISH LL	EXAMINER		
WORLD TRADE CENTER WEST 155 SEAPORT BOULEVARD			ELVE, MARIA ALEXANDRA	
BOSTON, MA 02210-2604			ART UNIT	PAPER NUMBER
			3742	
			NOTIFICATION DATE	DELIVERY MODE
			07/01/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/718,122	CARNEY ET AL.
Office Action Summary	Examiner	Art Unit
	M. Alexandra Elve	3742
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timed to the second	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 16 A This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examin	awn from consideration. or election requirement.	
10) ☐ The drawing(s) filed on 18 December 2006 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	are: a)⊠ accepted or b)⊡ objec e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 & 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al. (JP01-215290) in view of Takahashi (USPN 4,581,939).

Kimura et al. discloses an apparatus and method for the laser cutting of cells.

The condenser lens is vibrated in the axial direction of the laser beam. In addition the stage of the workpiece vibrates.

Kimura et al. does not teach the use of a spherical lens.

Takahashi disclose the use of vibration and a laser to find defects ultrasonically.

One half of the parallel rays of the light are projected on the surface of the specimen by a half mirror and another half of the parallel rays of light are projected on the surface of the specimen by a spherical lens.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a spherical lens as taught by Takahashi it is merely a specific type of lens used in laser system and hence is a design choice and variation (design variation and rearrangement of parts is known in the art).

Claims 1 & 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch (DE 39-38-779 A1) in view of Hillier (USPN 2,496,051) and Takahashi.

Bosch discloses the laser drilling of small holes in a metal part. The laser microdrills the metal to form boreholes. Drilling material (debris) is ejected due to the vibration of the workpiece. Vibration is transmitted to the ram (12, 13) and subsequently the work holder (3). The oscillation generator is connected (9).

Hillier discloses a specimen stage resting close to a lens whereby external vibrations communicate through the equipment frame to the lens and also to the stage. Thus both vibrate in unison.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have the lens and stage (frame) vibrate in unison, as taught by Hillier in the Bosch apparatus and method because it minimizes machining errors due to drift.

Bosch does not teach the use of a spherical lens.

Takahashi disclose the use of vibration and a laser to find defects ultrasonically.

One half of the parallel rays of the light are projected on the surface of the specimen by a half mirror and another half of the parallel rays of light are projected on the surface of the specimen by a spherical lens.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a spherical lens as taught by Takahashi it is merely a specific type of lens used in laser system and hence is a design choice and variation (design variation and rearrangement of parts is known in the art).

Claims 2-4 & 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al. and Takahashi, as stated above and further in view of Mosavi et al. (USPN 6,252,195).

Kimura et al. does not teach the type of laser, the formation of a hole, or the formation of a surgical needle.

Mosavi et al. discloses forming holes in a surgical needle using an Nd-YAG laser.

High-energy laser pulses form a blind hole in the proximal end of a surgical needle.

It would have been obvious to one of ordinary skill in the art at the time of the invention to make surgical needles, as taught by Mosavi et al., in the Kimura et al. system because the vibrational system ensures a high quality bore hole.

The rearrangement of parts was held to have been obvious. In re Japikse 86 USPQ 70.

Claims 2-4 & 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch, Hillier and Takahashi, as stated above and further in view of Mosavi et al.

Bosch does not teach the type of laser or the formation of a surgical needle.

Mosavi et al. discloses forming holes in a surgical needle using an Nd-YAG laser.

High-energy laser pulses form a blind hole in the proximal end of a surgical needle.

It would have been obvious to one of ordinary skill in the art at the time of the invention to make surgical needles, as taught by Mosavi et al., in the Bosch system because the vibrational system ensures a high quality bore hole.

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The rearrangement of parts was held to have been obvious. In re Japikse 86 USPQ 70.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 7:30-4:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 23, 2008.

/M. Alexandra Elve/ Primary Examiner, Art Unit 3742